

ADAS Subroutine i4indfi4

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C
      FUNCTION I4INDFI4( ndim , array , ind )

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C
C ***** FORTRAN77 INTEGER*4 FUNCTION: I4INDFI4 *****
C
C PURPOSE : Finds the index in the integer array corresponding to the
C           exact match to value. If the entry is outside the range of
C           array then -1 is returned.
C
C CALLING PROGRAM: GENERAL USE
C
C FUNCTION:
C
C FUNC:   (I*4)   I4INDFI4   = INDEX
C
C INPUT:  (I*4)   NDIM       = SIZE OF ARRAY
C INPUT:  (R*8)   ARRAY      = obvious
C INPUT:  (R*8)   IND        = SOUGHT VALUE
C
C
C AUTHOR   : Martin O'Mullane,
C
C VERSION  : 1.1
C DATE     : 15-04-2005
C
C MODIFIED : Martin O'Mullane
C           - First version.
C
C VERSION  : 1.2
C DATE     : 10-04-2007
C MODIFIED : Allan Whiteford
C           - Modified documentation as part of automated
C           subroutine documentation preparation.
C
C VERSION  : 1.3
C DATE     : 21-07-2008
C MODIFIED : Martin O'Mullane
C           - Do not assume a monotonic array when checking limits,
C           determine min/max index values instead.
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C-----
      INTEGER          ARRAY(NDIM), IND,          NDIM
```